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1 CATAATGGCT GTTCACAAAG TTAGCTTCCT TGCTTGCCTA CTTGTTCTTG GATGGATGTT
61 TCTACTTGCG AAACATGTTG ATGCCAAGGC TTGTACTAGA GAATGTGGTC ATTTTAGCTA
121 TGGCATATGC CCACGTTGAG AAGGAAGTCC CCAAAAACCT ATATGCACCA ATTGTTGCTC
181 AGGCTATAAG GGTGCAACT ATTACAGTGC TAAAGGAGAT TTGATTTGTG AAGGAGAATC
241 TGACCCTAGA AACCCAAAAG ATTGTACCTT CGAATGTGAT ACACAGATTG CTTATTCAAA
301 ATGTCCTCGT TCAGAAGGAA AGATGATAAT TAAACCCACT GGATGCACCA CTTGTTGCAC
361 GGGCTATCAG GGTGCTACT ATTTGATCA AGATGGTGAT TTTGTCTGTG AAGGAGAGAG
421 TCCTGAACCC AAGACCACTG CTTATTTCTA ATCAATCATA TGTGTTATC TATCAAAAAA
481 AAATATGTAT GCATGATATA TGCTGGTTAC TGTAATGTGG ACTTTATTG

FIG. 1a

1 MAVHKVSFLA CLLVLGWMFL LAKHVDKAC TRECGHFSYG ICPRSEGSPQ
51 KPICTNCCSG YKGCNYYSK GDLCCEGESD PRNPKDCTFE CDTQIAYSKC
101 PRSEGMIIK PTGCTTCCTG YQGCYYFDQD GDFVCEGESP EPKTTAYF

FIG. 1b

A SaPIN2b nucleotide sequence

1 GAAGATAATT AATCACGATC GAGAAAGAAT AAATGGCTGT TCACAAAGAA
51 GTTAGTTCCC TTGCTTACCT ACTTGTTCTT GGATTAATGT TTCTACATGT
101 AAGCGCGGTA AAACATGTTG ATGCCAAGCC ATGTACAAGA GAATGTGGTA
151 ATCTTGGGTA TGGAATATGC CCGCGTTCAG AAGGAAGTCC GGAAAATCCC
201 ATATGCACGA ATTGTTGCTC AGGCTATAAA GGTTGCAACT ATTATAGTGC
251 TAATGGGACT TTTATTTGCG AAGGAAGTTC TGACCCTAAA AACCCAAATA
301 CTTGCCCCTT ATTTTGTGAT GGAGATATTG CCTATTCAAA ATGTCCCCGT
351 TCAGAAGGAG AGACTATAAT ATATCCCACG GGATGCACCA CCTGTTGCAC
401 GGGGTACAAG GGTTGCTACT ATTTTAGTAA AGAAGGTGAG TTTGTGTGTG
451 AAGGAGAGAG TGATGAACCC AACGTTATTT CTAATCAATG AAATGCGTTG
501 TAGTTTTTAA TATAATGTAT GAAATAAAAG TATGCAGTAC GGCAATATAT
551 GATAATCACT ATAGTGTGGG CATCACAGTT GTGCTTTATA TGTAATTACT
601 AATTATCTGA ATAAGAGAAA AAGATCATCC ATGAGGACTT GGCTCCTCTC
651 CAGTAGTGGT GATCTCCTTC CTAACAAAAA AAAAAAAAAA AA

B SaPIN2b amino acid sequence

1 MAVHKEVSSL AYLLVLGLMF LHVSAVKHVD AKPCTRECGN LGYGICPRSE
51 GSPENPICTN CCSGYKGCNY YSANGTFICE GSSDPKPNPT CPLFCDGDIA
101 YSKCPRSEGE TIHYPTGCTT CCTGYKGCYY FSKEGEFVCE GESDEPNVIS
151 NQ

FIGS. 2a-b

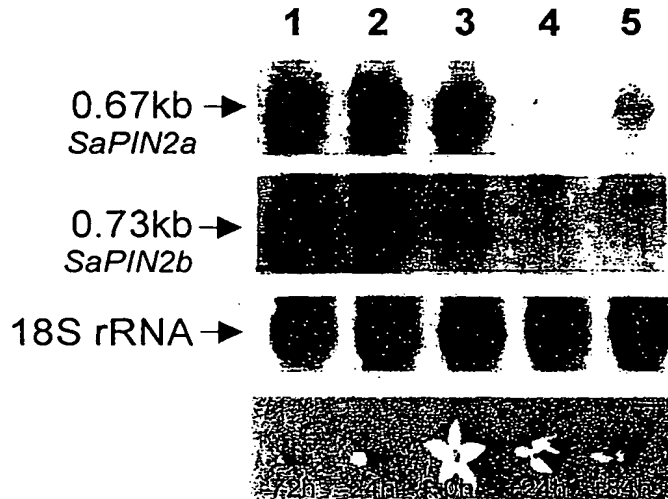


FIG. 3

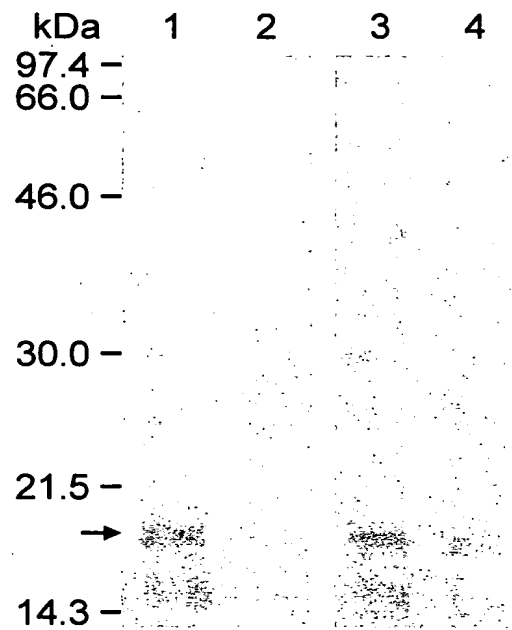
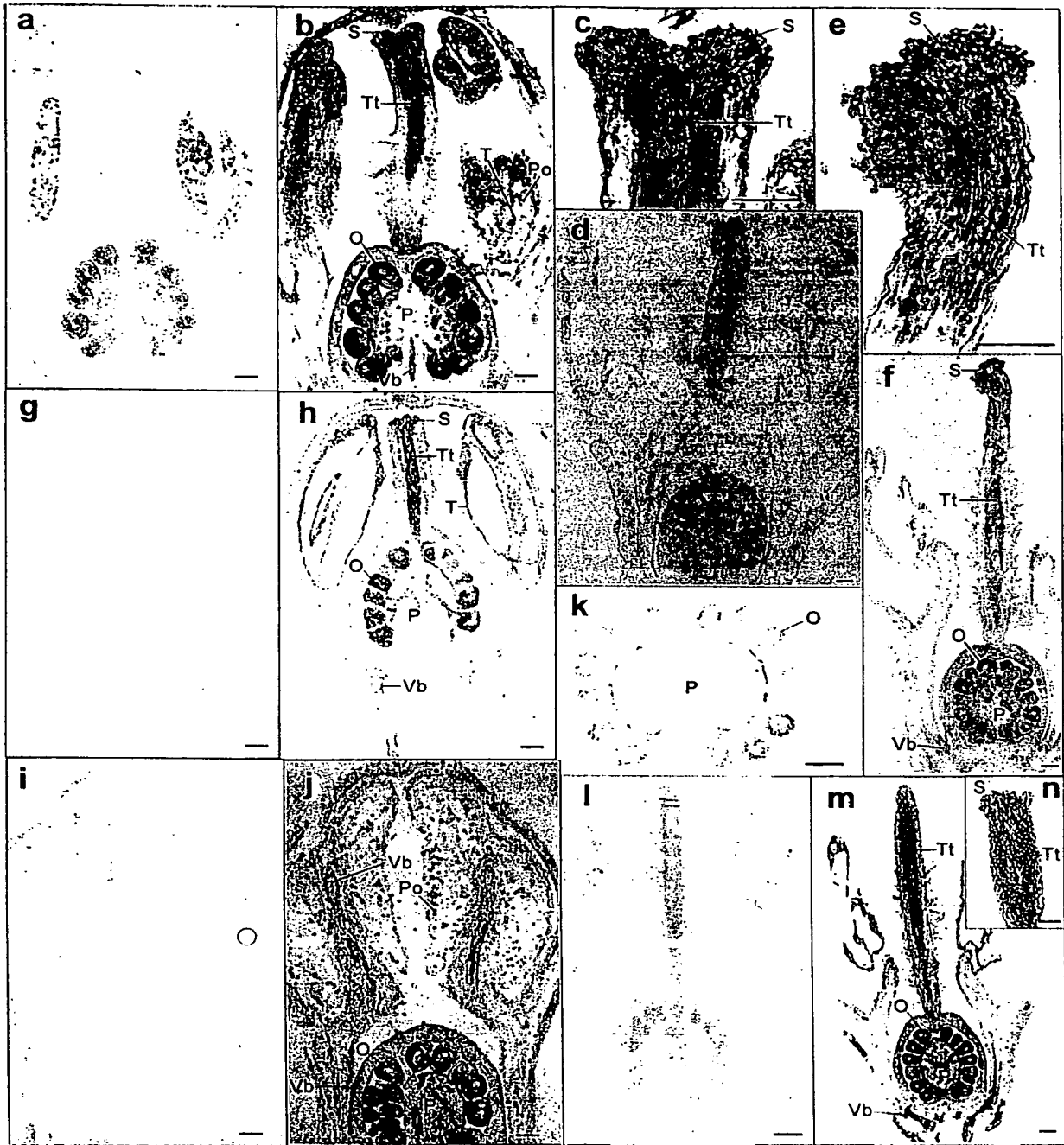
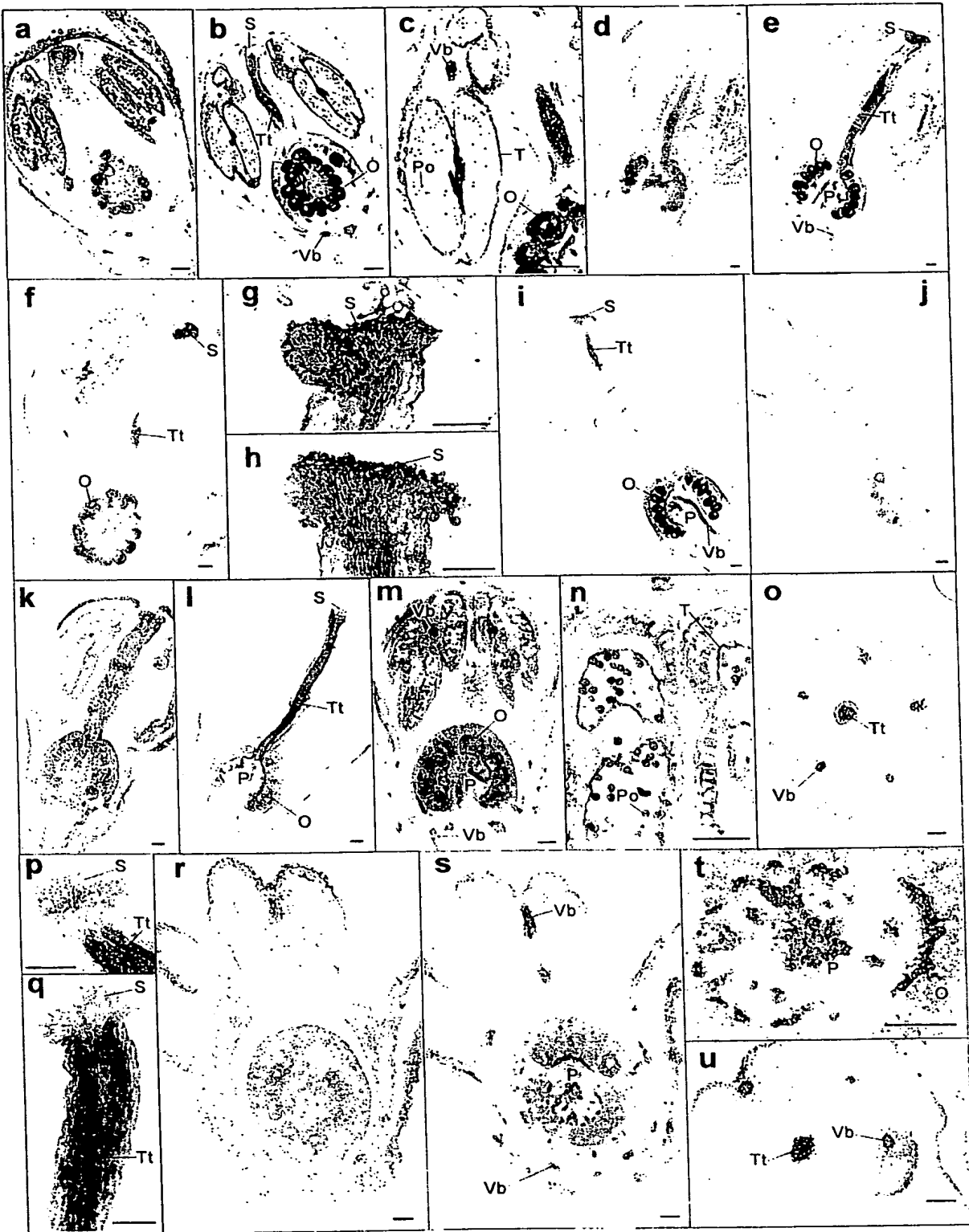


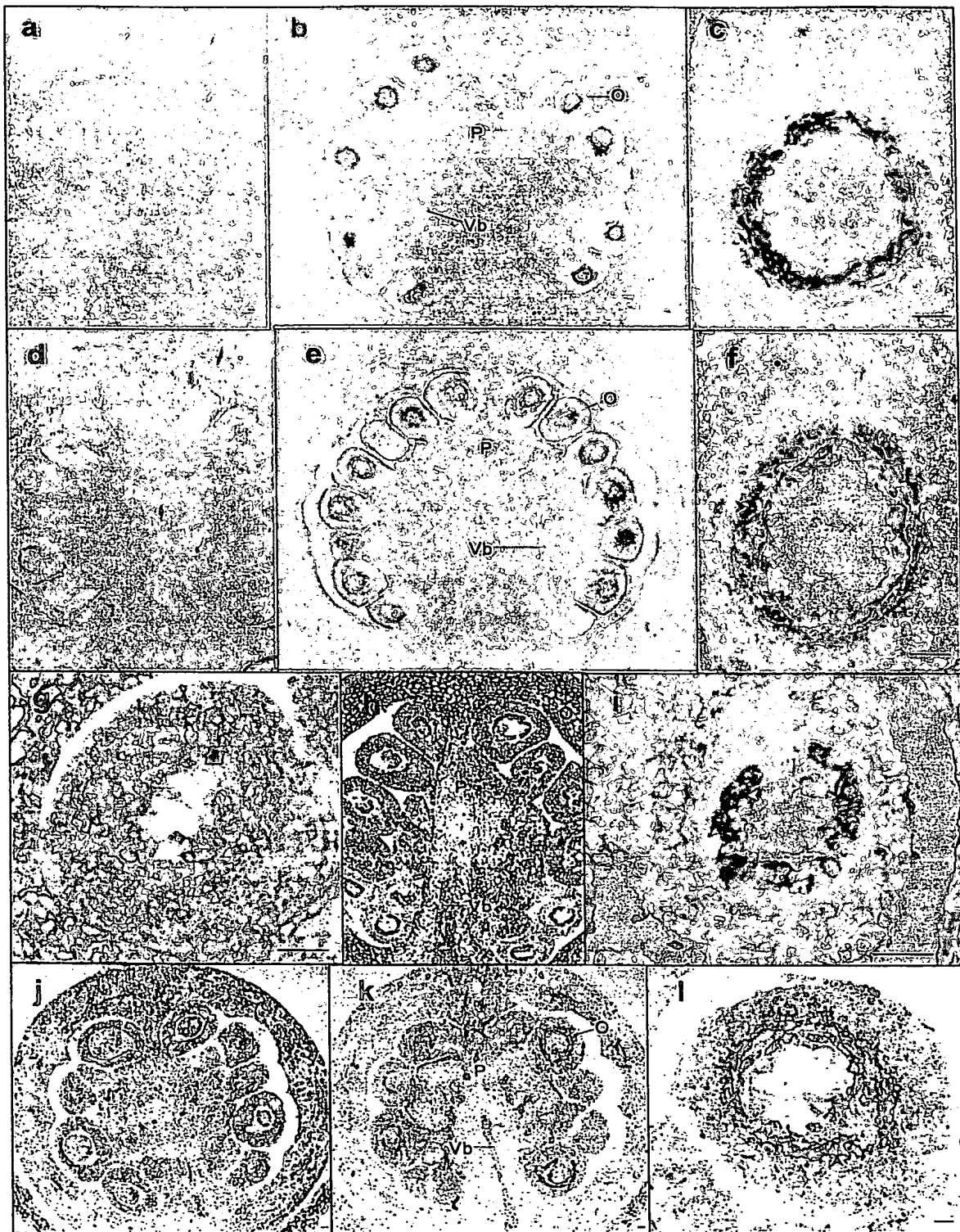
FIG.4



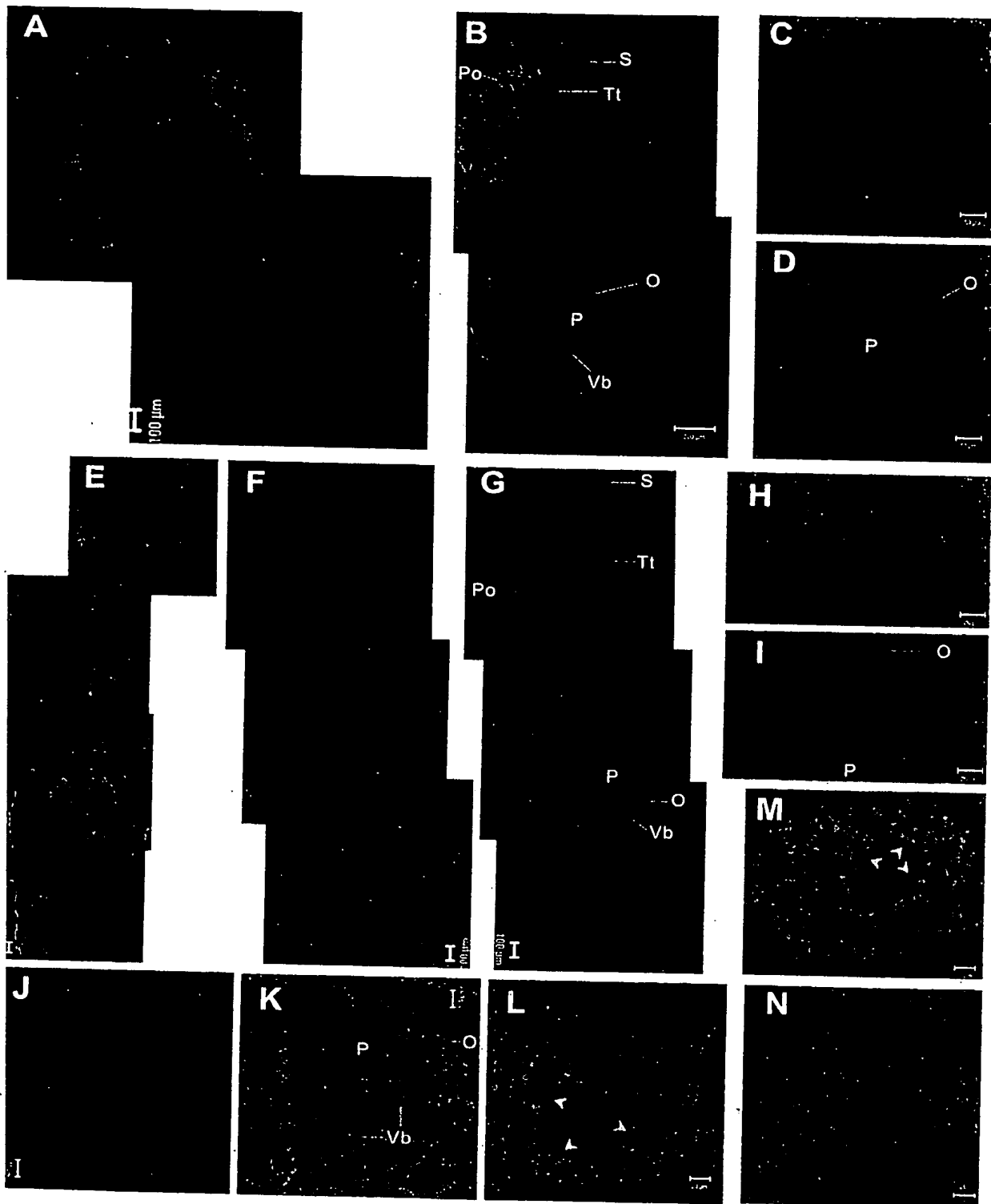
FIGS. 5a-n



FIGS. 6a-u



FIGS. 7a-l



FIGS. 8a-n



FIGS. 9a-m

pSa7

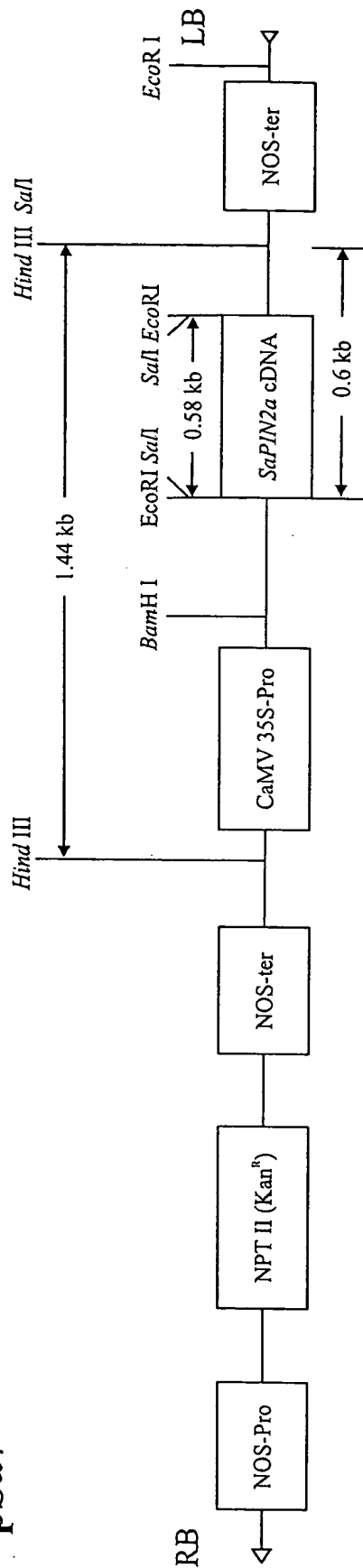


FIG. 10a

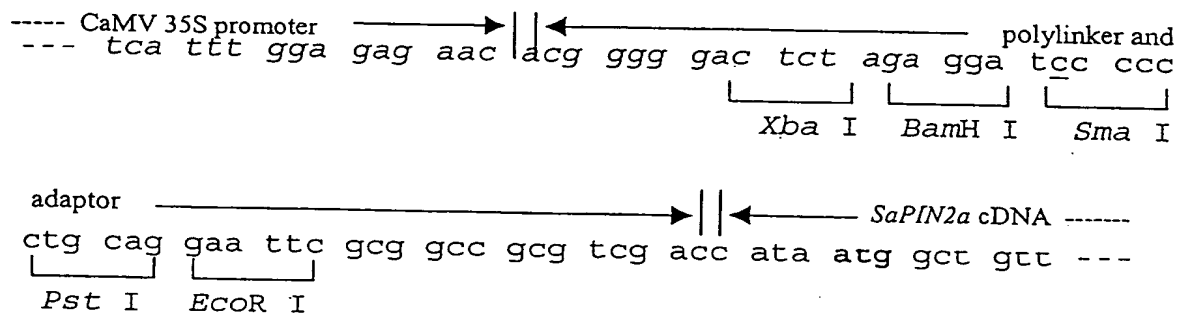
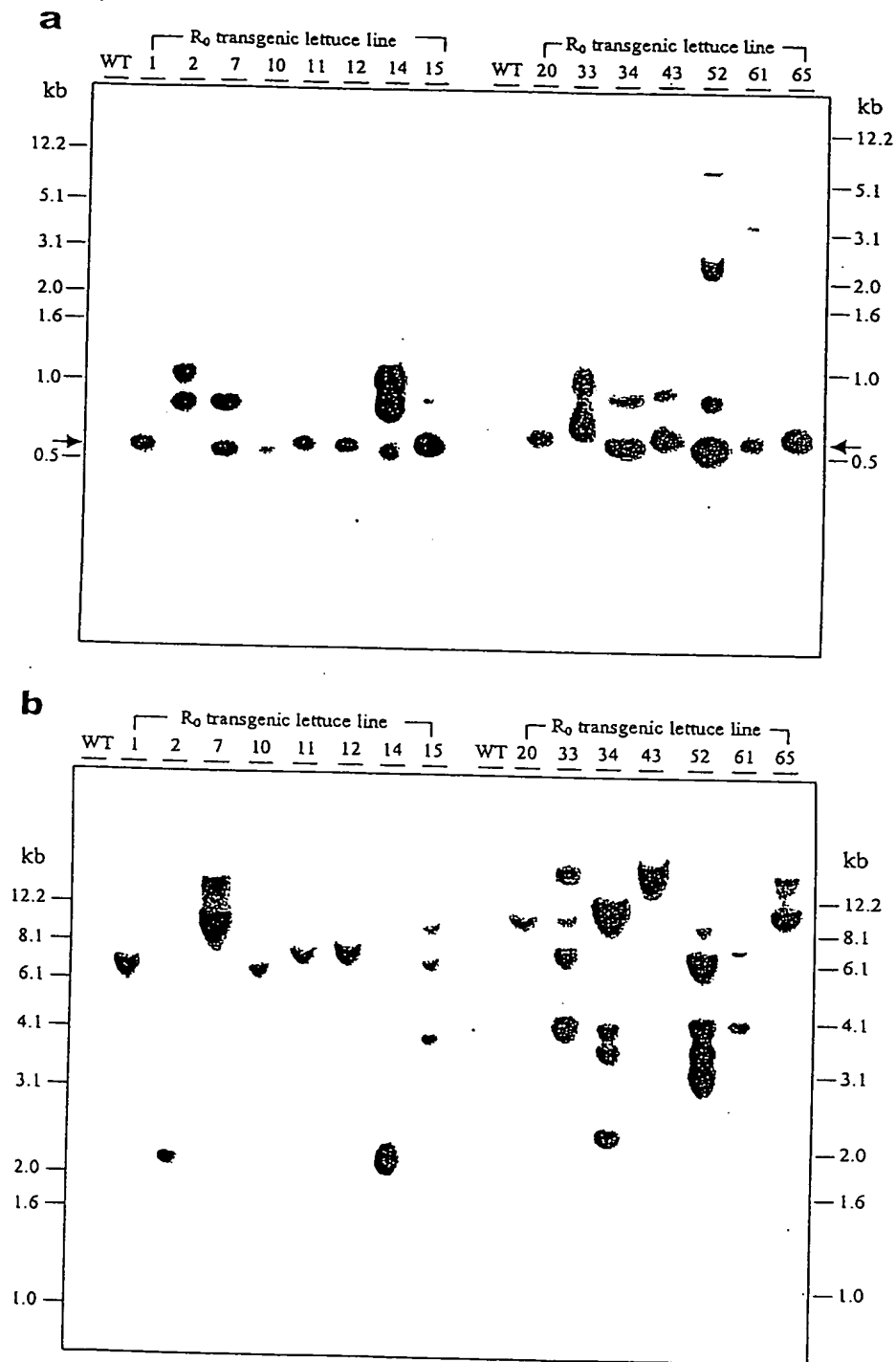
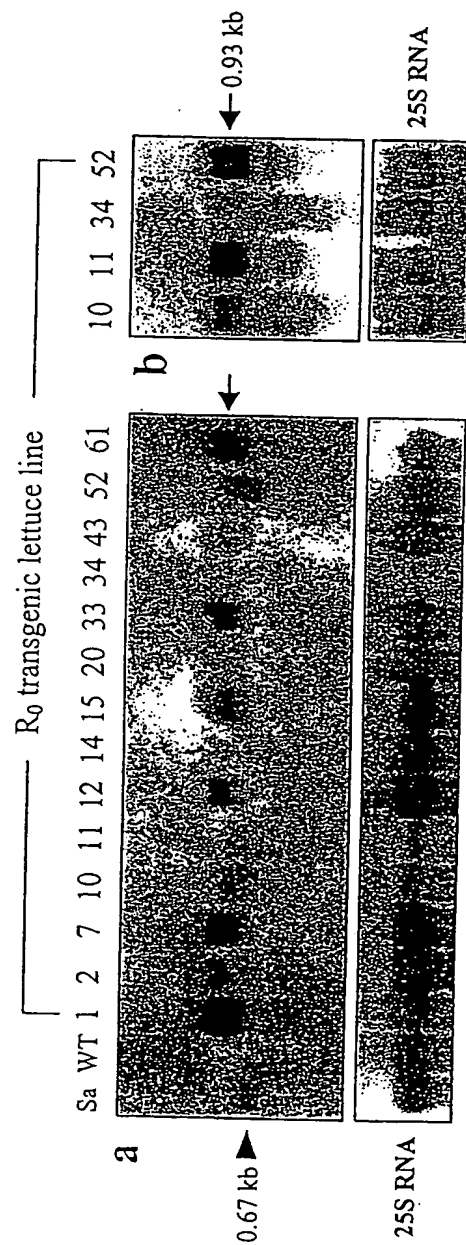


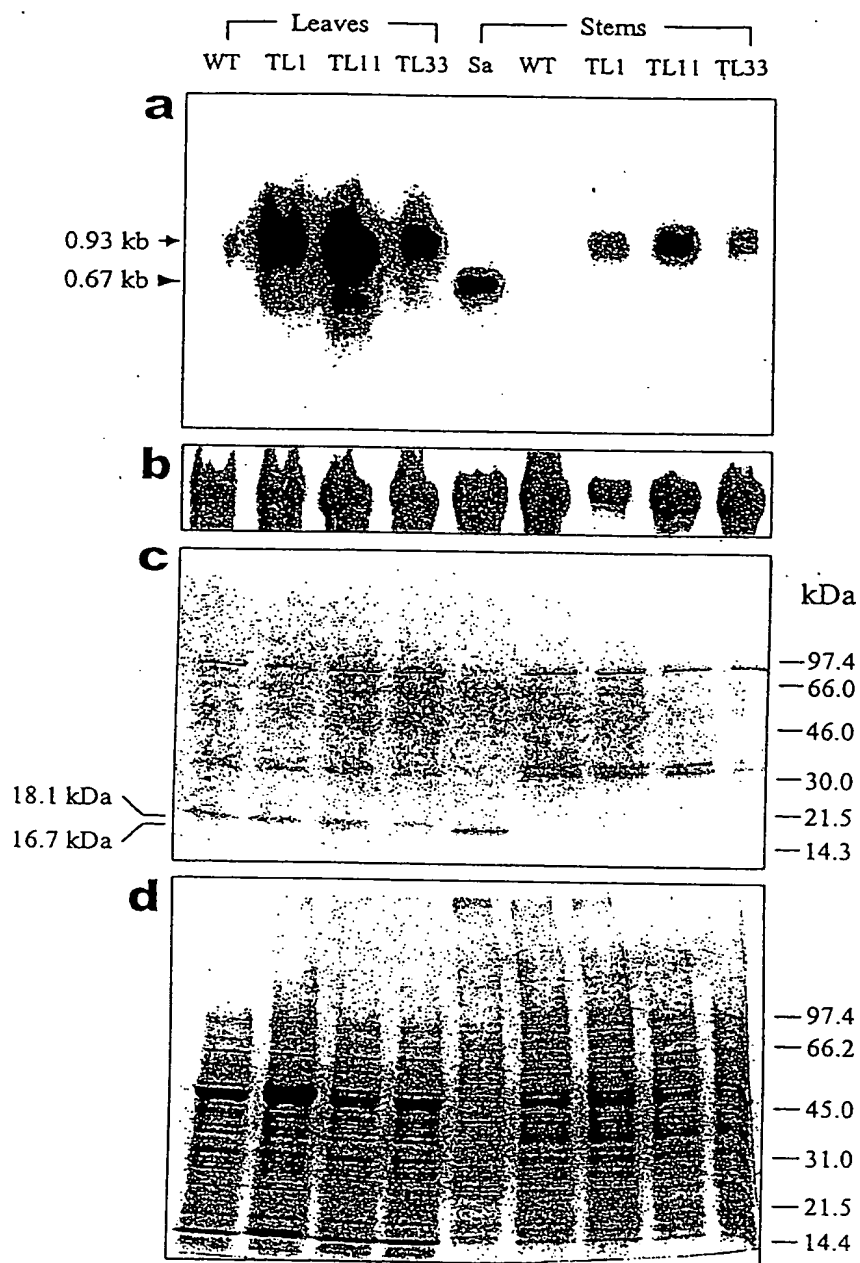
FIG. 10b



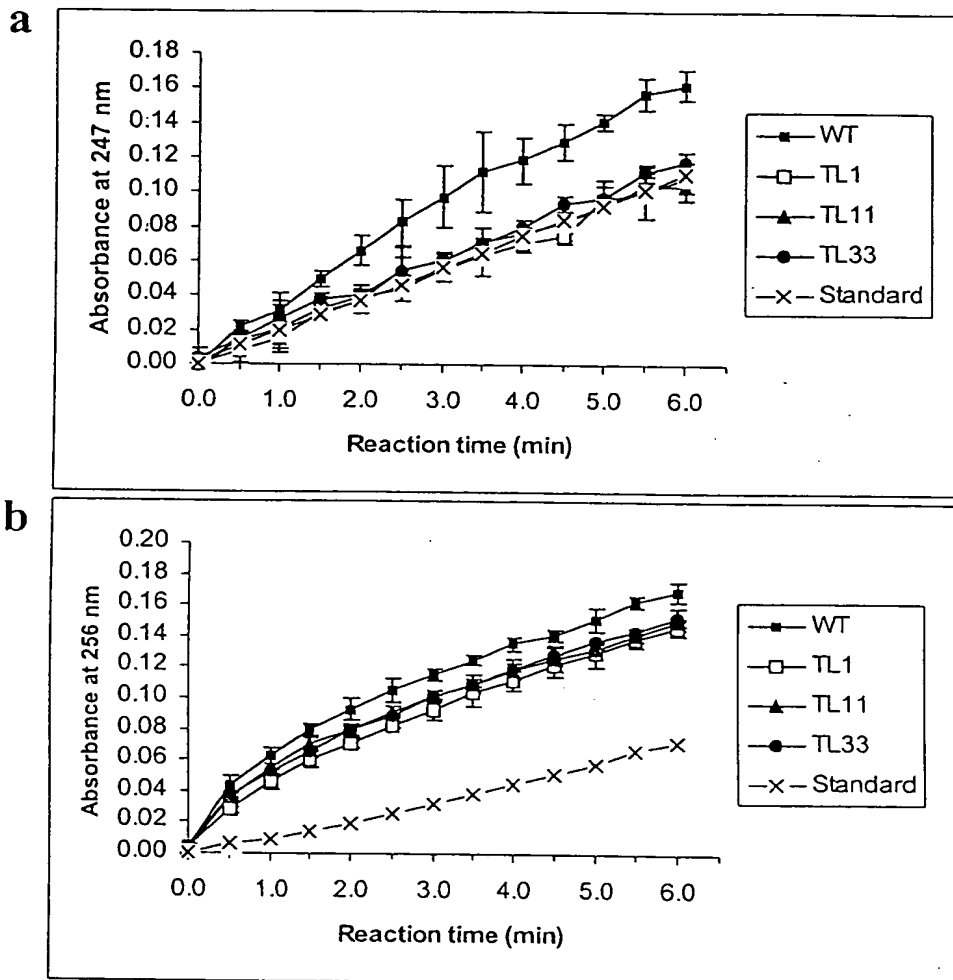
FIGS. 11a-b



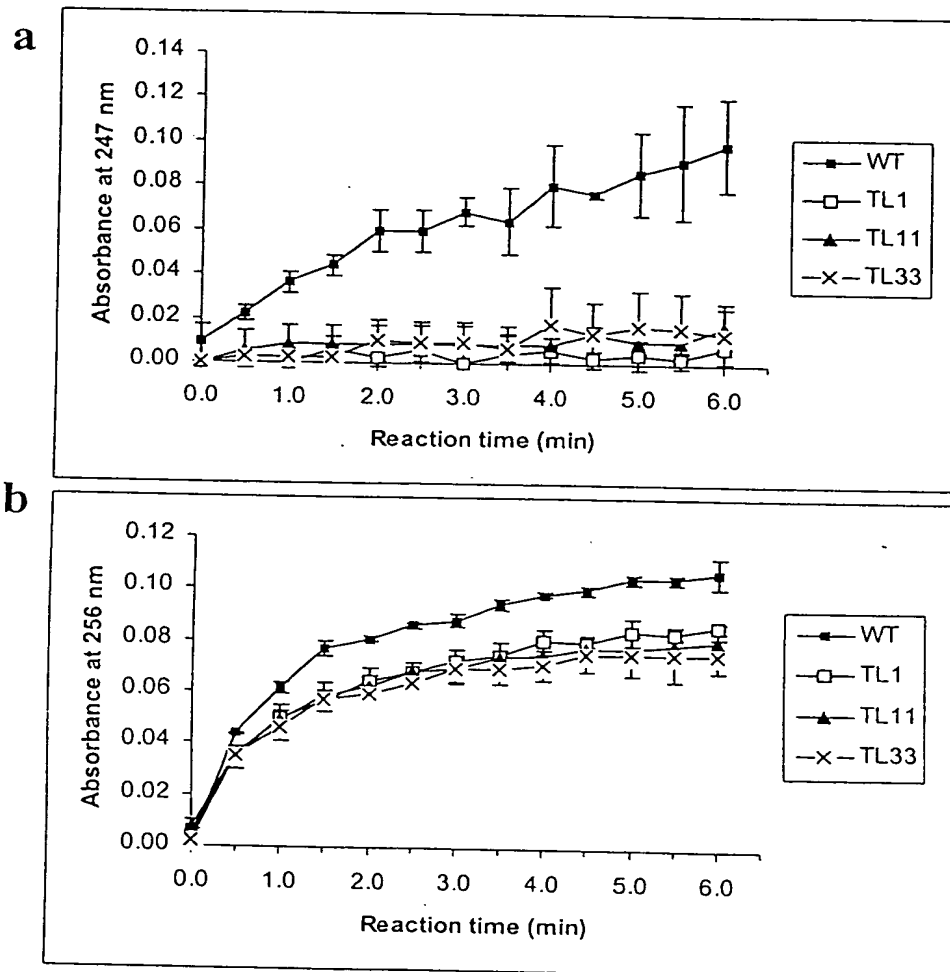
FIGS. 12a-b



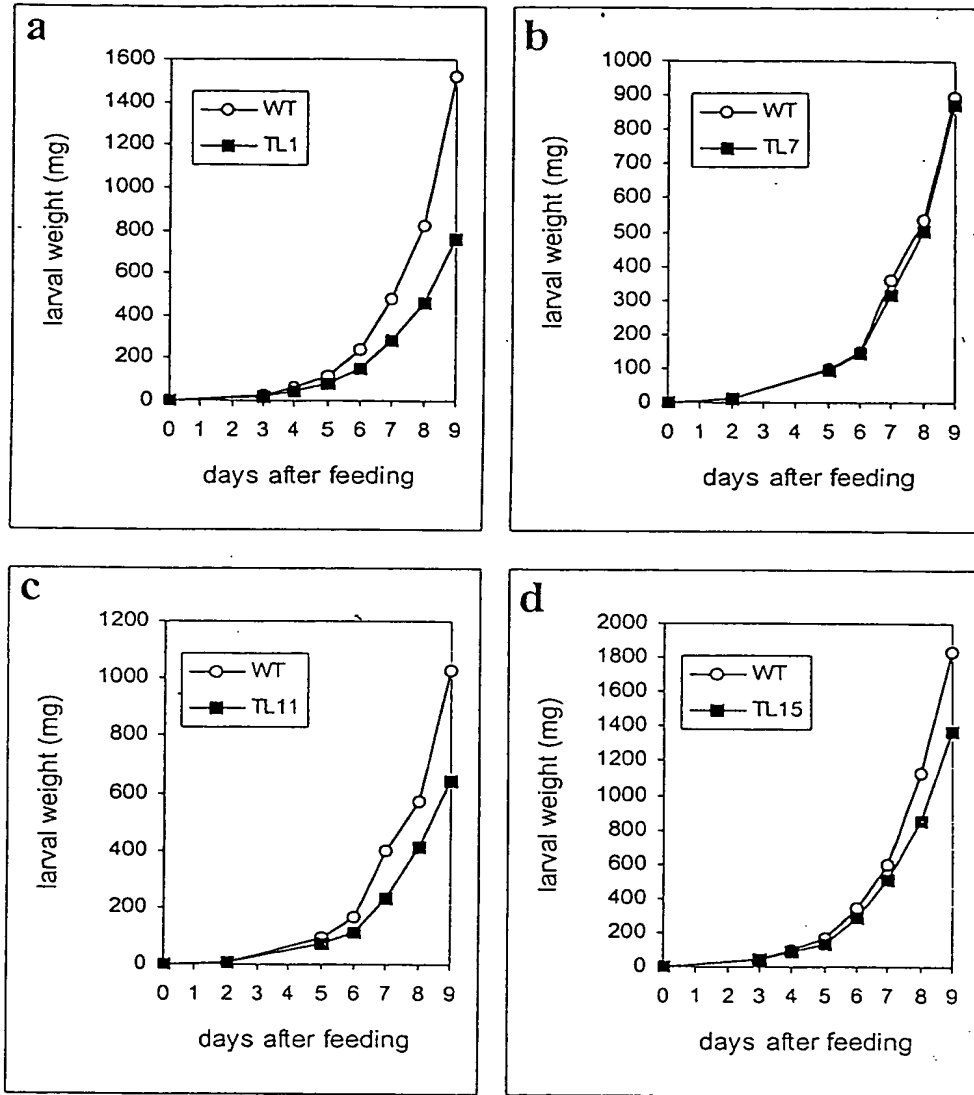
FIGS. 13a-d



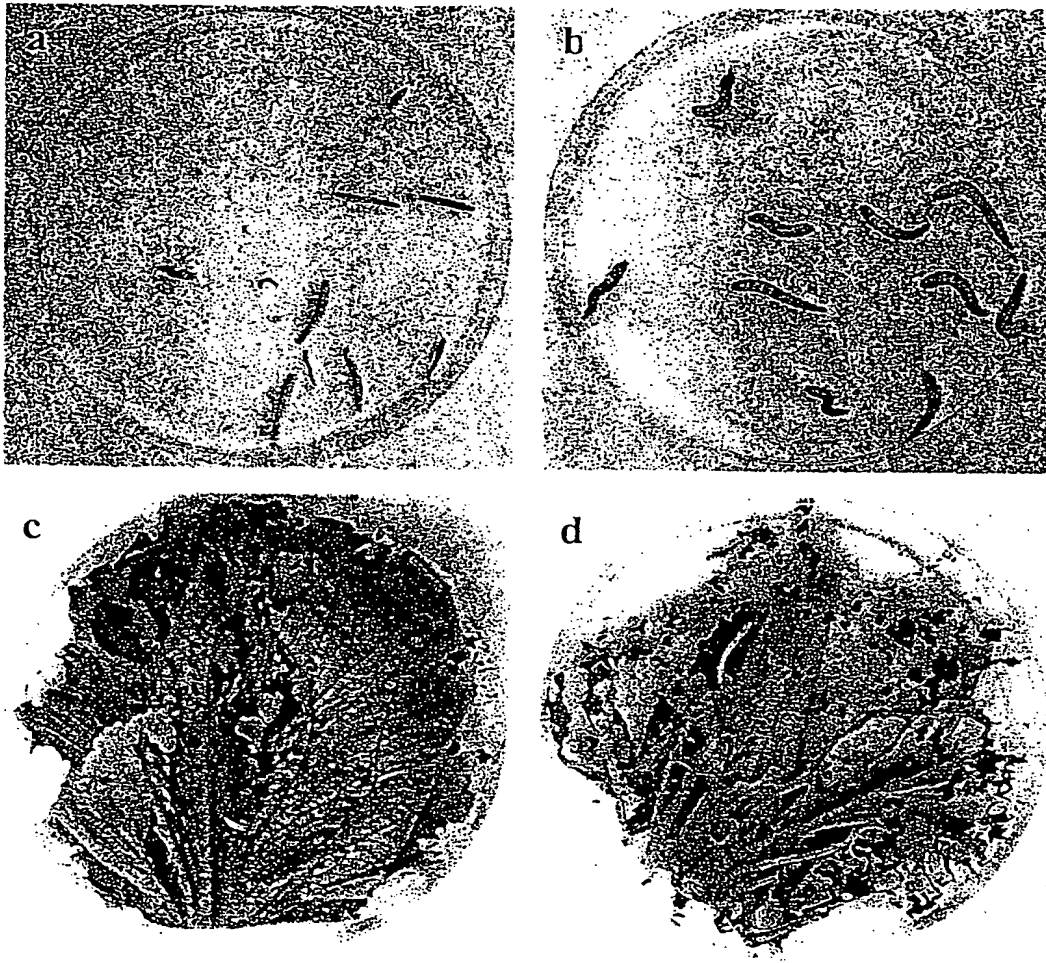
FIGS. 14a-b



FIGS. 15a-b



FIGS. 16a-d



FIGS. 17a-d

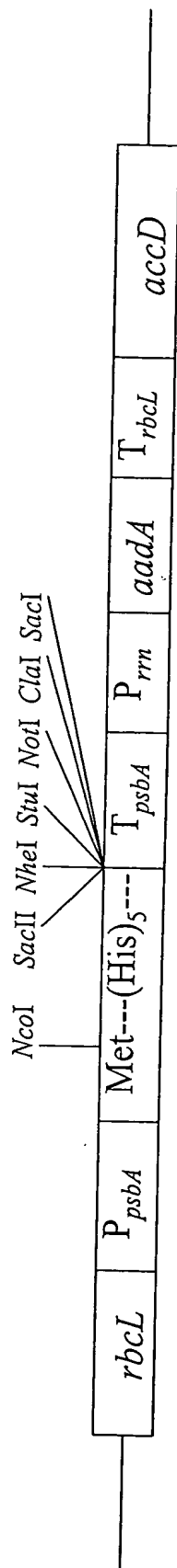


FIG. 18

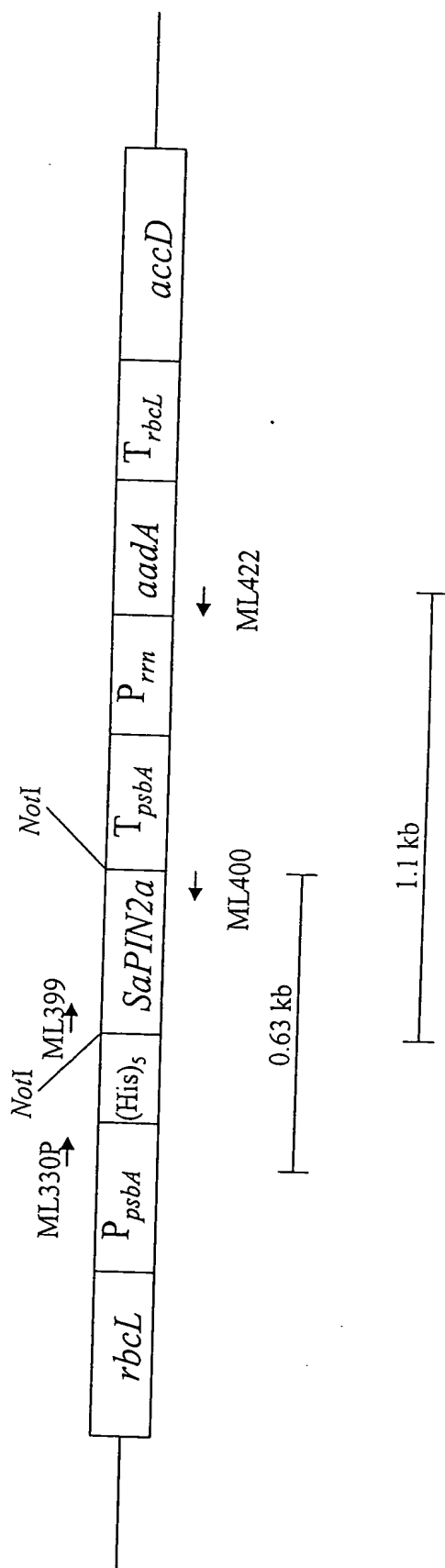
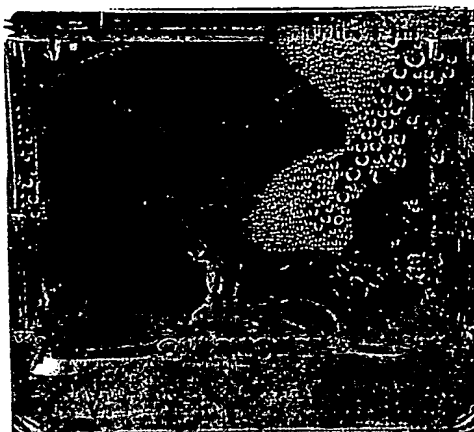


FIG. 19

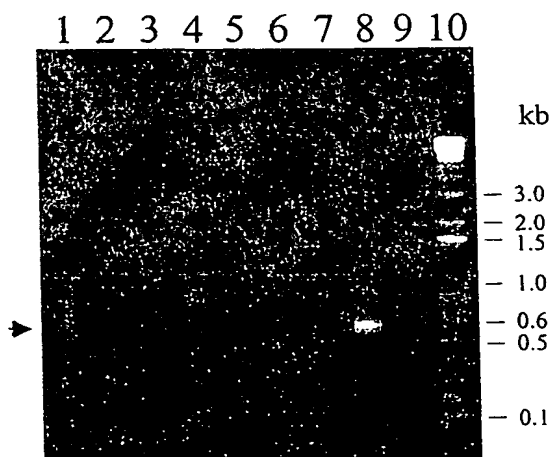
a



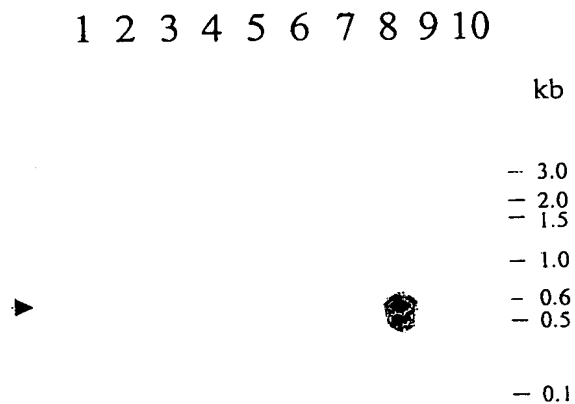
b



c



d



FIGs. 20a-d